

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/672,108A
Source: IFW/b
Date Processed by STIC: 3/23/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/672,108A

CRF Edit Date: 3/24/06
Edited by: h

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFW16

RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/672,108A

TIME: 17:10:33

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

1 <110> APPLICANT: Hellinga, Homme W.
 2 Sloan, David J.
 3 <120> TITLE OF INVENTION: NOVEL REAGENTS FOR AFFINITY-PURIFICATION OF ANTIBODY
 FRAGMENTS
 4 <130> FILE REFERENCE: Docket No. 180-106 Sequence Listing
 C--> 5 <140> CURRENT APPLICATION NUMBER: US/10/672,108A
 6 <141> CURRENT FILING DATE: 2003-09-25
 7 <160> NUMBER OF SEQ ID NOS: 30
 8 <170> SOFTWARE: PatentIn Ver. 2.0
 10 <210> SEQ ID NO: 1
 11 <211> LENGTH: 195
 12 <212> TYPE: DNA
 13 <213> ORGANISM: Streptococcus sp.
 14 <220> FEATURE:
 15 <221> NAME/KEY: CDS
 W--> 16 <222> LOCATION: (-1)..(195)
 17 <400> SEQUENCE: 1
 18 atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48
 19 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
 20 -1 1 5 10 15
 21 aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc aaa 96
 22 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
 23 20 25 30
 24 caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144
 25 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
 26 35 40 45
 27 gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192
 28 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
 29 50 55 60
 30 tga 195
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 62
 34 <212> TYPE: PRT
 35 <213> ORGANISM: Streptococcus sp.
 36 <400> SEQUENCE: 2
 37 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
 38 -1 1 5 10 15
 39 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
 40 20 25 30
 41 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
 42 35 40 45
 43 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
 44 50 55 60
 46 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING

DATE: 03/24/2006

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Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

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47 <211> LENGTH: 62
48 <212> TYPE: PRT
49 <213> ORGANISM: Streptococcus sp.
50 <400> SEQUENCE: 3
51   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
52   -1  1      5      10      15
53   Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
54           20      25      30
55   Cys Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
56           35      40      45
57   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
58           50      55      60
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 62
62 <212> TYPE: PRT
63 <213> ORGANISM: Streptococcus sp.
64 <400> SEQUENCE: 4
65   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
66   -1  1      5      10      15
67   Thr Thr Thr Glu Ala Val Asp Ala Ala Ala Ala Glu Lys Val Phe Lys
68           20      25      30
69   Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
70           35      40      45
71   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
72           50      55      60
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 195
76 <212> TYPE: DNA
77 <213> ORGANISM: Streptococcus sp.
78 <220> FEATURE:
79 <221> NAME/KEY: CDS
W--> 80 <222> LOCATION: (-1)..(195)
81 <400> SEQUENCE: 5
82   atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa   48
83   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
84   -1  1      5      10      15
85   aca act act gaa gct gtt gat gct gct act gca gcg aaa gtc ttc aaa   96
86   Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Ala Lys Val Phe Lys
87           20      25      30
88   caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat   144
89   Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
90           35      40      45
91   gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct   192
92   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
93           50      55      60
94   tga   195
96 <210> SEQ ID NO: 6
97 <211> LENGTH: 62
98 <212> TYPE: PRT

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RAW SEQUENCE LISTING

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TIME: 17:10:33

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

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99 <213> ORGANISM: Streptococcus sp.
100 <400> SEQUENCE: 6
101   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
102   -1  1          5          10          15
103   Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Ala Lys Val Phe Lys
104          20          25          30
105   Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
106          35          40          45
107   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
108          50          55          60
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 195
112 <212> TYPE: DNA
113 <213> ORGANISM: Streptococcus sp.
114 <220> FEATURE:
115 <221> NAME/KEY: CDS
W--> 116 <222> LOCATION: (-1)..(195)
117 <400> SEQUENCE: 7
118   atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48
119   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
120   -1  1          5          10          15
121   aca act act gaa gct gtt gat gct gct act gca gaa gcg gtc ttc aaa 96
122   Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Ala Val Phe Lys
123          20          25          30
124   caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144
125   Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
126          35          40          45
127   gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192
128   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
129          50          55          60
130   tga 195
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 62
134 <212> TYPE: PRT
135 <213> ORGANISM: Streptococcus sp.
136 <400> SEQUENCE: 8
137   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
138   -1  1          5          10          15
139   Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Ala Val Phe Lys
140          20          25          30
141   Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
142          35          40          45
143   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
144          50          55          60
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 195
148 <212> TYPE: DNA
149 <213> ORGANISM: Streptococcus sp.
150 <220> FEATURE:

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RAW SEQUENCE LISTING

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Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

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151 <221> NAME/KEY: CDS
W--> 152 <222> LOCATION: (-1)..(195)
153 <400> SEQUENCE: 9
154   atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa   48
155   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
156   -1  1          5          10          15
157   aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc gcg   96
158   Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Ala
159          20          25          30
160   caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat   144
161   Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
162          35          40          45
163   gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct   192
164   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
165          50          55          60
166   tga   195
168 <210> SEQ ID NO: 10
169 <211> LENGTH: 62
170 <212> TYPE: PRT
171 <213> ORGANISM: Streptococcus sp.
172 <400> SEQUENCE: 10
173   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
174   -1  1          5          10          15
175   Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Ala
176          20          25          30
177   Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
178          35          40          45
179   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
180          50          55          60
182 <210> SEQ ID NO: 11
183 <211> LENGTH: 195
184 <212> TYPE: DNA
185 <213> ORGANISM: Streptococcus sp.
186 <220> FEATURE:
187 <221> NAME/KEY: CDS
W--> 188 <222> LOCATION: (-1)..(195)
189 <400> SEQUENCE: 11
190   atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa   48
191   Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
192   -1  1          5          10          15
193   aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc aaa   96
194   Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
195          20          25          30
196   caa tac gct gcg gac aac ggt gtt gac ggt gaa tgg act tac gac gat   144
197   Gln Tyr Ala Ala Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
198          35          40          45
199   gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct   192
200   Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
201          50          55          60

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RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/672,108A

TIME: 17:10:33

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

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202          tga
204 <210> SEQ ID NO: 12
205 <211> LENGTH: 62
206 <212> TYPE: PRT
207 <213> ORGANISM: Streptococcus sp.
208 <400> SEQUENCE: 12
209      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
210      -1  1          5          10          15
211      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
212          20          25          30
213      Gln Tyr Ala Ala Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
214          35          40          45
215      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
216          50          55          60
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 62
220 <212> TYPE: PRT
221 <213> ORGANISM: Streptococcus sp.
222 <400> SEQUENCE: 13
223      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
224      -1  1          5          10          15
225      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
226          20          25          30
227      Gln Tyr Ala Asn Asp Asn Gly Val Ala Gly Glu Trp Thr Tyr Asp Asp
228          35          40          45
229      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
230          50          55          60
232 <210> SEQ ID NO: 14
233 <211> LENGTH: 62
234 <212> TYPE: PRT
235 <213> ORGANISM: Streptococcus sp.
236 <400> SEQUENCE: 14
237      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
238      -1  1          5          10          15
239      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
240          20          25          30
241      Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Ala Trp Thr Tyr Asp Asp
242          35          40          45
243      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
244          50          55          60
246 <210> SEQ ID NO: 15
247 <211> LENGTH: 195
248 <212> TYPE: DNA
249 <213> ORGANISM: Streptococcus sp.
250 <220> FEATURE:
251 <221> NAME/KEY: CDS
W--> 252 <222> LOCATION: (-1)..(195)
253 <400> SEQUENCE: 15
254      atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa  48

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/24/2006
PATENT APPLICATION: US/10/672,108A TIME: 17:10:34

Input Set : N:\AMC\J672108A.RAW
Output Set: N:\CRF4\03242006\J672108A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:25; Xaa Pos. 27
Seq#:26; Xaa Pos. 28
Seq#:27; Xaa Pos. 31
Seq#:28; Xaa Pos. 35
Seq#:29; Xaa Pos. 43
Seq#:30; Xaa Pos. 44,45

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3
Seq#:25; Line(s) 433
Seq#:26; Line(s) 451
Seq#:27; Line(s) 469
Seq#:28; Line(s) 487
Seq#:29; Line(s) 505
Seq#:30; Line(s) 523,527

VERIFICATION SUMMARY

DATE: 03/24/2006

PATENT APPLICATION: US/10/672,108A

TIME: 17:10:34

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

L:5 M:270 C: Current Application Number differs, Wrong Format
L:16 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:1, CDS LOCATION: (-1)..
(195)
L:80 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:5, CDS LOCATION: (-1)..
(195)
L:116 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:7, CDS LOCATION: (-1)..
(195)
L:152 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:9, CDS LOCATION: (-1)..
(195)
L:188 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:11, CDS LOCATION: (-1)..
(195)
L:252 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:15, CDS LOCATION: (-1)..
(195)
L:288 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:17, CDS LOCATION: (-1)..
(195)
L:324 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:19, CDS LOCATION: (-1)..
(195)
L:360 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:21, CDS LOCATION: (-1)..
(195)
L:396 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:23, CDS LOCATION: (-1)..
(195)
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:16
L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:16
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:16
L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:32
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:32
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:32

**Raw Sequence Listing before editing
(for reference only)**



IFW16

RAW SEQUENCE LISTING

DATE: 03/23/2006

PATENT APPLICATION: US/10/672,108A

TIME: 09:37:14

Input Set : N:\SMITH\PTO.TS.17.txt

Output Set: N:\CRF4\03232006\J672108A.raw

3 <110> APPLICANT: Hellinga, Homme W.

4 Sloan, David J.

6 <120> TITLE OF INVENTION: NOVEL REAGENTS FOR AFFINITY-PURIFICATION OF ANTIBODY FRAGMENTS

8 <130> FILE REFERENCE: Docket No. 180-106 Sequence Listing

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/672,108A

C--> 10 <141> CURRENT FILING DATE: 2003-09-25

10 <160> NUMBER OF SEQ ID NOS: 30

12 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

724 <210> SEQ ID NO: 30

725 <211> LENGTH: 62

726 <212> TYPE: PRT

727 <213> ORGANISM: Streptococcus sp.

730 <220> FEATURE:

731 <221> NAME/KEY: misc_feature

732 <222> LOCATION: (44)..(44)

733 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid, except threonine

735 <220> FEATURE:

736 <221> NAME/KEY: misc_feature

737 <222> LOCATION: (45)..(45)

738 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid, except tyrosine

740 <400> SEQUENCE: 30

742 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu

743 -1 1 5 10 15

745 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys

746 20 25 30

W--> 748 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Xaa Xaa Asp Asp

749 35 40 45

751 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His

752 50 55 60

E--> 753 - 13

E--> 754 - 1 -

**Does Not Comply
Corrected Diskette Needed**

VERIFICATION SUMMARY

DATE: 03/23/2006

PATENT APPLICATION: US/10/672,108A

TIME: 09:37:15

Input Set : N:\SMITH\PTO.TS.17.txt

Output Set: N:\CRF4\03232006\J672108A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
 L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:22 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:1, CDS LOCATION: (-1)..
 (195)
 L:111 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:5, CDS LOCATION: (-1)..
 (195)
 L:161 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:7, CDS LOCATION: (-1)..
 (195)
 L:211 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:9, CDS LOCATION: (-1)..
 (195)
 L:261 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:11, CDS LOCATION: (-1)..
 (195)
 L:351 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:15, CDS LOCATION: (-1)..
 (195)
 L:401 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:17, CDS LOCATION: (-1)..
 (195)
 L:451 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:19, CDS LOCATION: (-1)..
 (195)
 L:501 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:21, CDS LOCATION: (-1)..
 (195)
 L:551 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:23, CDS LOCATION: (-1)..
 (195)
 L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:16
 L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:16
 L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:16
 L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:32
 L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:32
 L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:32
 L:753 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:30
 M:332 Repeated in SeqNo=30